Katie Nelson

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PROFESSIONAL SUMMARY

A dedicated and results-driven **Research Analyst** with over **15 years** of experience in data analysis, machine learning, and predictive modeling. Skilled in transforming business needs into technical solutions using modern data science tools and practices. Passionate about solving real-world problems through data-driven approaches and delivering measurable outcomes.

CORE SKILLS

- **Technical Skills:** PostgreSQL, Machine Learning, SQL, C++, Data Wrangling, Git

- **Analytical Skills:** Statistical modeling, hypothesis testing, data interpretation.

- **Soft Skills:** Clear communication, collaboration, agile mindset, mentoring.

- **Tools:** Tableau, Power BI, Jupyter, Git, Docker, Cloud platforms.

PROFESSIONAL EXPERIENCE

Smart Metrics Co.   *June 2016 – June 2018*
Role: Research Analyst

- Extracted and analyzed large-scale datasets to uncover actionable insights for business growth.

- Built predictive models using machine learning techniques to optimize decision-making.

- Collaborated with engineers and stakeholders on end-to-end model deployment and reporting.

- Led initiatives for workflow automation, improving data pipeline efficiency by 30%.

- Provided guidance and training to junior analysts on analytical best practices.

EDUCATION

California Institute of Technology (Caltech)   *Graduated: June 2018*
Master of Engineering in Data Engineering
GPA: 3.91

- Relevant Courses: Data Structures, Algorithms, Statistics, Machine Learning, Database Systems

SELECTED PROJECTS

Autonomous Vehicle Navigation Model

- Led end-to-end development of a scalable data-driven system that improved operational efficiency.

- Utilized advanced analytics and machine learning for real-time prediction and automation.

- Deployed solutions with seamless integration into business intelligence dashboards.